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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,348	09/25/2003	Jong Dam Kim	2658-0310P	6627
2292	7590	06/01/2005	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			NGUYEN, JIMMY	
PO BOX 747			ART UNIT	
FALLS CHURCH, VA 22040-0747			PAPER NUMBER	

2829

DATE MAILED: 06/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/669,348

Applicant(s)

KIM ET AL.

Examiner

Jimmy Nguyen

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 2/22/05.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 2, 6 - 9, 12 - 15, 17 - 21, 25 - 27, 30 - 33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 14, 15, 17, 18, 25 - 27, 30 - 33 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☒ Claim(s) 1, 2 6- 9, 12, 13, 19 - 21 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claims Objection

- Claims 1, 2, 6 – 9, 12, 13 are objected. In particular, in claim 1 the examiner is unclear the limitations of “scanning adjacent signal wires” whether the adjacent signal wires are referred to “ even numbered signal wires” or “ odd numbered signal wires”.
- Claims 19 – 21, are objected. In particular, in claim 19 the examiner is unclear the limitations of “scanning adjacent signal wires” whether the adjacent signal wires are referred to “ even numbered signal wires” or “ odd numbered signal wires”.

Allowable Subject Matter

1. Claims 14, 15, 17, 18 are allowed.

The prior arts of record are fail to disclose the a method for inspecting a LCD device having a plurality of signal wires, comprising:

Applying a current to electrode pattern;

Scanning the electrode pattern by using a sensor array including one or more magnetic sensors below a pixel in size; and

Detecting the resistance change of each of the magnetic sensors to perceive defects in the electrode pattern.

2. Claims 25 – 27, 30 -33 are allowed.

The prior arts of record are fail to disclose the combination of an apparatus
a first voltage source for supplying a first common voltage to one side of first
signal wires;
a second voltage source for supplying a second common voltage different
from the first common voltage to one side of second signal wires:
a magnetic sensor for scanning over at least one second signal wire stacked
over at least one first signal wire, an insulation layer being located between the
first signal wire and the second signal wires. and the magnetic sensor
scans the first and second signal wires on pads connected to an other side of the
first and second signal wires; and
a detecting circuit for detecting a resistance change of the magnetic sensor to
perceive an interlayer short in the signal wires.

Conclusion

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Jimmy Nguyen whose telephone number is 571-272-
1965. The examiner can normally be reached on M-F from 9 to 5.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's
supervisor, Ramtez Nestor can be reached on 571-272-2034. The fax phone number
for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jimmy Nguyen

5/26/2005


VINH NGUYEN
PRIMARY EXAMINER
A.U. 2829
05/27/05